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The Society of the
Plastics Industry, Inc.

# Monthly Statistical Report-Resins

1275 K Street, N.W., #400
Washington, D.C. 20005
(202) 371-5200

FOR THE MONTH AND PERIOD ENDED

NOVEMBER 30, 1988

## PRODUCTION AND SALES & CAPTIVE USE OF THERMOSETTING AND THERMOPLASTIC RESINS

## ISSUED BY THE COMMITTEE ON RESIN STATISTICS

AS COMPILED BY ERNST & WHINNEY, WASHINGTON, D.C.
Association Services Group

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SOURCE: SPI COMMITTEE ON RESIN STATISTICS
AS COMPILED BY ERNST & WHINNEY

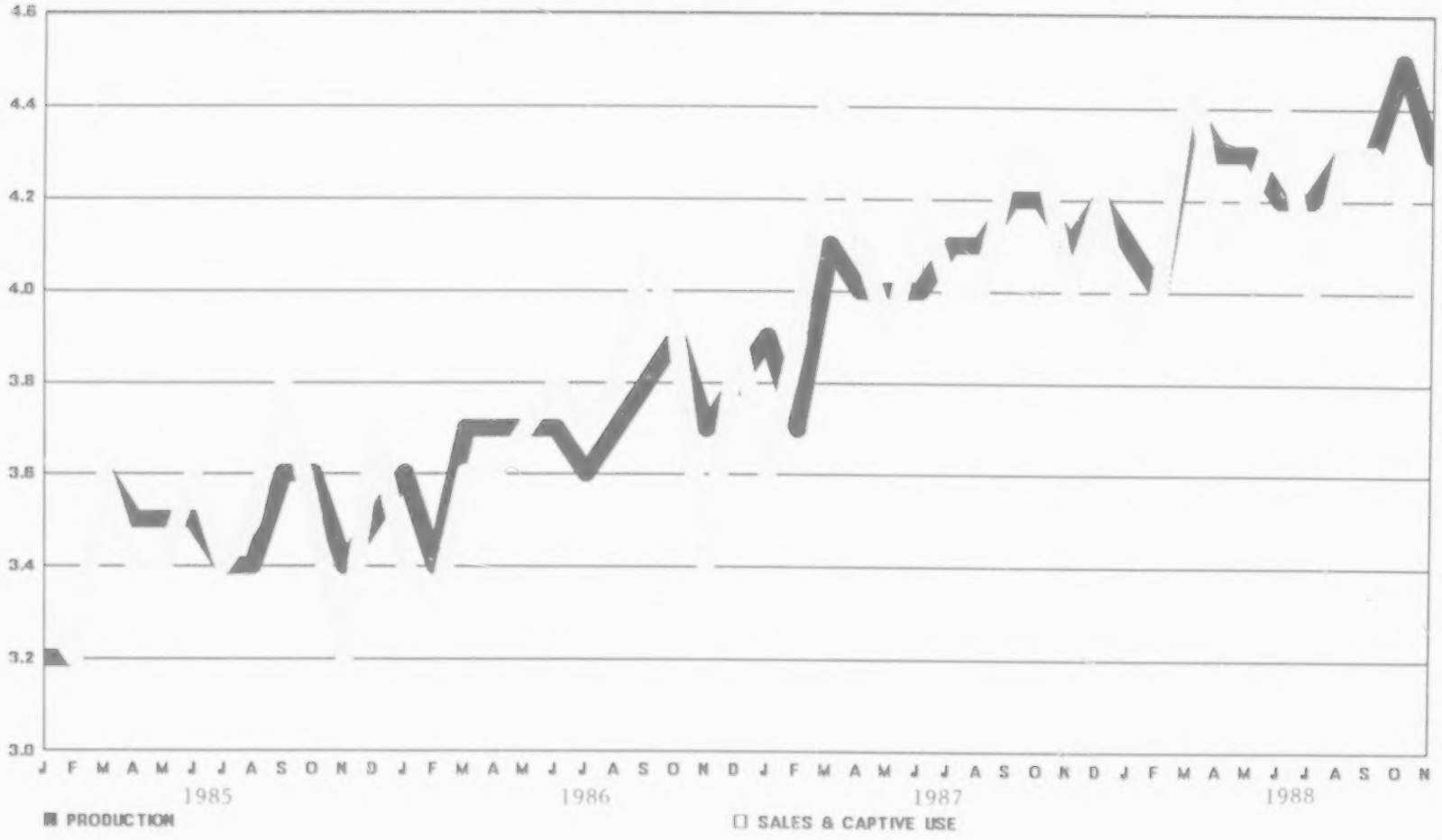
Release Date: JANUARY 17, 1989

# THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

## PRODUCTION AND SALES & CAPTIVE USE OF PLASTIC RESINS

(BILLIONS OF POUNDS)

NOVEMBER 1988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PRODUCTION
SALES & CAPTIVE USE

Compiled by Ernst & Whinney, Washington, DC

SECTION I

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(Thousands of pounds, dry weight basis)(1)

CRS

NOVEMBER 1988

| RESIN KIND | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| EPOXY RESIN, TOTAL | 36,554 | 33,113 | 10.4 | 433,494 | 385,791 | 12.4 | 39,053 | 37,089 | 5.3 | 445,868 | 390,708 | 14.1 |
| POLYESTER (UNSATURATED) RESINS, TOTAL | 108,859 | 109,211 | -0.3 | 1,299,552 | 1,257,625 | 3.3 | 108,778 | 109,554 | -0.7 | 1,307,375 R | 1,263,780 | 3.4 |
| UREA RESINS, TOTAL | 112,048 | 105,863 | 5.8 | 1,235,852 | 1,255,409 | -1.6 | 112,733 | 106,663 | 5.7 | 1,310,575 | 1,269,239 | 3.3 |
| MELAMINE RESINS, TOTAL | 18,068 | 16,372 | 10.4 | 185,976 | 183,389 | 1.9 | 19,136 | 16,767 | 14.1 | 190,535 | 195,540 | -6.7 |
| PHENOLIC & OTHER TAR ACID RESINS, TOTAL | 238,522 | 224,318 | 6.3 | 2,804,165 | 2,630,364 | 6.6 | 237,012 | 225,699 | 5.0 | 2,800,191 | 2,631,806 | 6.4 |
| THERMOSETTING RESINS, TOTAL | 514,051 | 488,877 | 0.1 | 5,959,039 | 5,712,578 | -1.0 | 516,712 | 495,772 | 0.0 | 6,054,544 | 5,751,073 | -1.0 |
| LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL | 824,955 | 779,677 | 5.8 | 9,181,740 | 8,745,279 | 5.0 | 904,285 | 783,782 | 15.4 | 9,488,080 | 8,786,477 | 8.0 |
| HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL | 622,944 | 660,336 | -5.7 | 7,453,916 | 7,434,010 | 0.3 | 724,577 | 691,557 | 4.8 | 7,714,540 | 7,284,149 | 5.9 |
| POLYPROPYLENE, TOTAL | 535,915 | 558,661 | -4.1 | 6,543,320 | 6,097,851 | 7.3 | 624,626 | 597,574 | 4.5 | 6,727,866 | 6,076,792 | 10.7 |
| ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS, TOTAL | 106,432 | 114,555 | -7.1 | 1,169,944 | 1,116,094 | 4.8 | 99,130 | 97,092 | 2.1 | 1,166,627 | 1,062,265 | 9.8 |
| STYRENE-ACRYLONITRILE (SAN) RESINS, TOTAL | 11,819 | 10,907 | 8.4 | 134,851 | 116,161 | 16.1 | 13,138 | 12,358 | 6.3 | 137,439 | 117,634 | 16.8 |
| POLYSTYRENE RESINS, TOTAL | 386,741 | 374,304 | 3.3 | 4,625,224 | 4,467,570 | 3.5 | 426,168 | 400,070 | 6.5 | 4,716,706 | 4,367,933 | 8.0 |
| STYRENE BASED LATEXES, TOTAL ** | 81,771 | 78,373 | 4.3 | 919,394 | 893,219 | 2.9 | 79,787 | 76,640 | 4.1 | 881,554 | 851,718 | 3.5 |
| OTHER STYRENICS, TOTAL (40% or More Styrene) | 14,251 | 24,117 | -40.9 | 166,099 | 262,035 | -36.6 | 18,336 | 26,048 | -29.6 | 196,869 | 277,377 | -29.0 |
| NYLON RESINS | 50,738 | 44,316 | 14.5 | 523,419 | 454,917 | 30.2 | 51,817 | 40,571 | 27.7 | 514,165 | 465,468 | 19.3 |
| POLYVINYL CHLORIDE & COPOLYMERS, TOTAL (Dry Resin content) | 643,993 | 694,343 | -7.3 | 7,599,312 | 7,416,400 | 2.5 | 695,111 | 687,435 | 1.1 | 7,647,63[illegible] | 7,244,057 | 5.6 |
| VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL | N/A | 55,240 | | N/A | 654,535 | | N/A | 55,240 | | N/A | 654,535 | |
| POLYVINYL ALCOHOL, TOTAL | D(4) | D(4) | | D(4) | D(4) | | D(4) | D(4) | | D(4) | D(4) | |
| OTHER VINYL RESINS | 16,181 | 18,371 | -11.9 | 190,247 | 190,971 | -0.4 | 18,951 | 19,512 | -2.9 | 201,488 | 196,996 | 2.3 |
| THERMOPLASTIC POLYESTER, TOTAL | 130,916 | 119,021 | 10.0 | 1,527,194 | 1,280,794 | 19.2 | 145,116 | 108,956 | 33.2 | 1,522,719 | 1,272,799 | 19.6 |
| THERMOPLASTIC RESINS, TOTAL | 3,426,656 | 3,532,221 | N.C. | 40,034,660 | 39,129,836 | N.C. | 3,801,042 | 3,596,835 | N.C. | 40,915,687 | 38,658,200 | N.C. |
| GRAND TOTAL | 3,940,707 | 4,021,098 | N.C. | 45,993,699 | 44,842,414 | N.C. | 4,317,754 | 4,092,607 | N.C. | 46,970,231 | 44,409,273 | N.C. |

(1) = Except phenolic resins which are reported on a gross weight basis.
** = Sales and Captive Use figures include some Canadian produced materials.
(4) = The publishing of PVOH data is temporarily suspended.

N/A = Not Available
N.C. = Not Comparable
R = Revision
D = Disclosure

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI's COMMITTEE ON RESIN STATISTICS (CRS)

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| EPOXY RESIN, TOTAL | 36,554 | 33,113 | 10.4 | 433,494 | 385,791 | 12.4 | 39,053 | 37,089 | 5.3 | 445,868 | 390,708 | 14.1 |
| Total Exports | 7,531 | 5,524 | 36.3 | 86,972 | 67,953 | 28.0 | | | | | | |
| Captive Use, Total | 1,451 | 979 | 48.2 | 13,932 | 12,095 | 15.2 | | | | | | |
| Domestic Sales, Total | 27,572 | 26,610 | 3.6 | 332,590 | 305,743 | 8.8 | | | | | | |
| Domestic Sales & Captive Use, Total | 29,023 | 27,589 | 5.2 | 346,522 | 317,838 | 9.0 | | | | | | |
| Bonding & Adhesives | 1,909 | 1,779 | 7.3 | 21,172 | 20,111 | 5.3 | | | | | | |
| Flooring, Paving & Exposed Aggregate | 1,828 | 1,546 | 18.2 | 23,272 | 19,688 | 18.2 | | | | | | |
| Protective Coatings | 13,205 | 13,176 | 0.2 | 164,254 | 159,082 | 3.3 | | | | | | |
| Fiber Reinforced Lam. & Comp., Total | 6,191 | 5,726 | 8.1 | 76,965 | 65,879 | 16.8 | | | | | | |
| FRL&C for Printed Wiring Board | 4,153 | 3,958 | 4.9 | 52,371 | 46,216 | 13.3 | | | | | | |
| All Other FRL&C | 2,038 | 1,768 | 15.3 | 24,594 | 19,663 | 25.1 | | | | | | |
| Tooling, Casting & Molding Resins | 2,485 | 1,981 | 25.4 | 24,743 | 21,937 | 12.8 | | | | | | |
| All Other Uses | 3,405 | 3,381 | 0.7 | 36,116 | 31,141 | 16.0 | | | | | | |
| POLYESTER (UNSATURATED) RESINS, TOTAL | 108,859 | 109,211 | -0.3 | 1,299,552 | 1,257,625 | 3.3 | 108,778 | 109,554 | -0.7 | 1,307,375 R | 1,263,780 | 3.4 |
| Total Exports | 1,447 | 833 | 73.7 | 14,157 | 8,915 | 58.8 | | | | | | |
| Total Domestic | 107,412 | 108,378 | -0.9 | 1,285,395 | 1,248,710 | 2.9 | | | | | | |
| General Purpose Resins, Total | 92,075 | 92,499 | -0.5 | 1,115,951 R | 1,083,555 | 3.0 | | | | | | |
| General Purpose - Thixotropic | 40,605 | 43,163 | -5.9 | 514,671 | 488,213 | 5.4 | | | | | | |
| General Purpose - Press Molding | 11,005 | 10,674 | 3.1 | 127,686 | 131,296 | -2.7 | | | | | | |
| General Purpose - All Other | 40,465 | 38,662 | 4.7 | 473,594 R | 464,046 | 2.1 | | | | | | |
| Flame Retardant Resins | 2,383 | 2,586 | -7.8 | 26,306 | 26,584 | -1.0 | | | | | | |
| Chemical Resistant Resins | 12,954 | 13,293 | -2.6 | 143,138 R | 138,571 | 3.3 | | | | | | |
| Chemical Resistant Isophthalic Resins | 10,224 | 10,021 | 2.0 | 105,283 | 107,393 | -2.0 | | | | | | |
| All Other Chemical Resistant Resins | 2,730 | 3,272 | -16.6 | 37,855 R | 31,178 | 21.4 | | | | | | |
| Reinforced Plastics, Total | 80,977 | 83,846 | -3.4 | 980,045 R | 952,164 | 2.9 | | | | | | |
| Non-Reinforced Plastics, Total | 26,435 | 24,532 | 7.8 | 305,350 | 296,546 | 3.0 | | | | | | |

R = Revision

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI's COMMITTEE ON RESIN STATISTICS (CRS)

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In Thousands of Pounds, Dry Weight Basis)(1)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| UREA RESINS, TOTAL | 112,048 | 105,863 | 5.8 | 1,235,852 | 1,255,409 | -1.6 | 112,733 | 106,663 | 5.7 | 1,310,575 | 1,269,239 | 3.3 |
| MELAMINE RESINS, TOTAL | 18,068 | 16,372 | 10.4 | 185,976 | 183,389 | 1.9 | 19,136 | 16,767 | 14.1 | 190,535 | 195,540 | -6.7 |
| UREA & MELAMINE RESINS, TOTAL | 130,116 | 122,235 | 6.4 | 1,421,828 | 1,438,798 | -3.1 | 131,869 | 123,430 | 6.8 | 1,501,110 | 1,464,779 | 4.6 |
| Total Exports * | D | D | | D | D | | | | | | | |
| Total Domestic | 130,116 | 122,235 | 6.4 | 1,421,828 | 1,438,798 | -3.1 | | | | | | |
| Textile Treating & Coating Resins | 2,049 | 2,084 | -1.7 | 25,710 | 22,489 | 30.3 | 3,096 | 2,833 | 9.3 | 32,476 | 27,352 | 38.6 |
| Paper Treating & Coating Resins | 4,394 | 4,525 | -2.9 | 49,293 | 74,065 | -68.9 | 4,776 | 4,776 | 0.0 | 52,328 | 75,436 | -63.3 |
| Molding Compounds ** | D | D | | D | D | | D | D | | D | D | |
| Bonding & Adhesive Resins for: | 102,743 | 97,163 | 5.7 | 1,136,784 | 1,133,884 | 0.0 | 102,384 | 97,869 | 4.6 | 1,197,275 | 1,133,967 | 5.6 |
| Laminating | 4,300 | 4,381 | -1.8 | 38,582 | 47,461 | -39.1 | 3,805 | 4,224 | -9.9 | 36,685 | 45,534 | -39.8 |
| Plywood | 3,856 | 3,782 | 2.0 | 46,362 | 53,740 | -28.6 | 3,904 | 3,793 | 2.9 | 48,287 | 54,655 | -24.4 |
| Fibrous & Granulated Wood (Particle Board) | 94,587 | 89,000 | 6.3 | 1,051,840 | 1,032,683 | 3.3 | 94,675 | 89,852 | 5.4 | 1,112,303 | 1,033,778 | 15.4 |
| Protective Coatings (Straight & Modified) | 9,673 | 9,307 | 3.9 | 102,357 | 101,769 | 0.8 | 11,362 | 11,087 | 2.5 | 118,117 | 130,513 | -20.1 |
| All Other Uses | 11,257 | 9,156 | 22.9 | 107,684 | 106,591 | 1.0 | 10,251 | 6,865 | 49.3 | 100,914 | 97,511 | 3.5 |
| PHENOLIC & OTHER TAR ACID RESINS, TOTAL | 238,522 | 224,318 | 6.3 | 2,804,165 | 2,630,364 | 6.6 | 237,012 | 225,699 | 5.0 | 2,800,191 | 2,631,806 | 6.4 |
| Total Exports | 1,633 | 1,648 | -0.9 | 20,275 | 16,006 | 26.7 | | | | | | |
| Total Domestic | 236,889 | 222,670 | 6.4 | 2,783,890 | 2,614,358 | 6.5 | | | | | | |
| Molding Compounds | 16,440 | 15,386 | 6.9 | 175,771 | 179,729 | -2.2 | 16,729 | 16,165 | 3.5 | 187,001 | 190,548 | -1.9 |
| Bonding & Adhesive Resins for: | 215,846 | 200,990 | 7.4 | 2,519,035 | 2,362,274 | 6.6 | 216,041 | 203,410 | 6.2 | 2,523,379 | 2,366,965 | 6.6 |
| Laminating | 16,604 | 11,409 | 45.5 | 197,164 | 175,663 | 12.2 | 16,529 | 11,718 | 41.1 | 194,343 | 177,000 | 9.8 |
| Coated & Bonded Abrasives | 1,931 | 1,039 | 85.9 | 20,308 | 17,796 | 14.1 | 1,942 | 1,048 | 85.3 | 20,426 | 17,889 | 14.2 |
| Friction Materials | 3,068 | 1,993 | 53.9 | 34,372 | 29,498 | 16.5 | 3,250 | 2,379 | 36.6 | 34,770 | 28,916 | 20.2 |
| Insulation Materials | 45,987 | 38,456 | 19.6 | 456,600 | 393,414 | 16.1 | 45,103 | 38,797 | 16.3 | 454,453 | 394,993 | 15.1 |
| Foundry & Shell Molding | 3,918 | 2,905 | 34.9 | 48,399 | 39,574 | 22.3 | 4,042 | 2,875 | 40.6 | 48,760 | 39,448 | 23.6 |
| Plywood | 116,113 | 121,156 | -4.2 | 1,440,014 | 1,432,931 | 0.5 | 115,810 | 122,095 | -5.1 | 1,440,345 | 1,434,268 | 0.4 |
| Fibrous & Granulated Wood | D | 19,588 | | D | 225,447 | | D | 19,655 | | D | 225,257 | |
| Resins Sold to Rubber Industry | 1,564 | 1,718 | -9.0 | 17,874 | 16,674 | 7.2 | 2,688 | 2,085 | 28.9 | 25,736 | 17,578 | 46.4 |
| All Other @ | 26,661 | 2,726 | N.C. | 304,304 | 31,277 | N.C. | 26,677 | 2,758 | N.C. | 304,546 | 31,616 | N.C. |
| Protective Coatings - Unmodified & Modified | 1,666 | 1,966 | -15.3 | 19,500 | 22,418 | -13.0 | 1,668 | 1,990 | -16.2 | 19,521 | 22,476 | -13.1 |
| Resins Sold to Rubber Ind., Non-Adhesive Uses | D | D | | D | D | | D | D | | D | D | |
| All Other Uses # | 2,937 | 4,328 | -32.1 | 69,584 | 49,937 | 39.3 | 2,574 | 4,134 | -37.7 | 70,290 | 51,817 | 35.7 |

(1) = Except phenolic resins which are reported on a gross weight basis.
* = Exports included in Domestic Total and All Other Uses.
** = Molding Compounds included in All Other Uses.
@ = Due to disclosure problem, All Other Uses includes Fibrous & Granulated Wood.
\# = Due to disclosure problem, All Other Uses includes Resins Sold to Rubber Industry, Non-Adhesive Uses.

N.C. = Not comparable data.
D = Disclosure


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MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
(In thousands of pounds, dry weight basis)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL | 824,955 | 779,677 | 5.8 | 9,181,740 | 8,745,279 | 5.0 | 904,285 | 783,782 | 15.4 | 9,488,080 | 8,786,477 | 8.0 |
| Total Exports | 48,556 | 75,450 | -35.6 | 796,720 | 912,142 | -12.7 | | | | | | |
| Total Domestic | 776,399 | 704,227 | 10.2 | 8,385,020 | 7,833,137 | 7.0 | | | | | | |
| Film (12 Mils & Below) | 451,005 | 452,517 | -0.3 | 4,991,451 | 4,784,498 | 4.3 | | | | | | |
| Sheet (Over 12 Mils) | D(3) | D(3) | | D(3) | D(3) | | | | | | | |
| Injection Molding | 60,616 | 56,343 | 7.6 | 664,313 | 629,270 | 5.6 | | | | | | |
| Wire & Cable | 31,662 | 25,084 | 26.2 | 353,551 | 310,313 | 13.9 | | | | | | |
| Extrusion Coating | 66,895 | 54,637 | 22.4 | 702,516 | 695,202 | 1.1 | | | | | | |
| Blow Molding | 6,958 | 3,901 | 78.4 | 68,969 | 48,598 | 41.9 | | | | | | |
| Pipe & Conduit, Total | 11,119 | 2,226 | 399.5 | 59,806 | 42,235 | 41.6 | | | | | | |
| Corrugated Pipe & Conduit | D | D | | D | D | | | | | | | |
| Non-corrugated Pipe & Conduit | D | D | | D | D | | | | | | | |
| Other Extruded Products | 13,679 | 11,339 | 20.6 | 164,829 | 119,397 | 38.1 | | | | | | |
| Resellers & Compounders | 46,730 | 41,044 | 13.9 | 518,780 | 532,099 | -2.5 | | | | | | |
| All Other Uses | 87,735 | 57,136 | 53.6 | 860,805 | 671,525 | 28.2 | | | | | | |
| HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL | 622,944 | 660,336 | -5.7 | 7,453,916 | 7,434,010 | 0.3 | 724,577 | 691,557 | 4.8 | 7,714,540 | 7,284,149 | 5.9 |
| Total Exports | 41,909 | 67,278 | -37.7 | 600,480 | 810,697 | -25.9 | | | | | | |
| Total Domestic | 581,035 | 593,058 | -2.0 | 6,853,436 | 6,623,313 | 3.5 | | | | | | |
| Film (12 Mils & Below) | 61,760 | 61,209 | 0.9 | 677,202 | 584,582 | 15.8 | | | | | | |
| Sheet (Over 12 Mils) | 26,606 | 18,731 | 42.0 | 254,552 | 207,575 | 22.6 | | | | | | |
| Injection Molding | 133,021 | 137,362 | -3.2 | 1,533,129 | 1,630,412 | -6.0 | | | | | | |
| Wire & Cable | 10,536 | 6,876 | 53.2 | 115,965 | 99,263 | 16.8 | | | | | | |
| Extrusion Coating | D(2) | D(2) | | D(2) | D(2) | | | | | | | |
| Blow Molding | 228,222 | 240,807 | -5.2 | 2,787,855 | 2,622,745 | 6.3 | | | | | | |
| Pipe & Conduit, Total | 39,770 | 45,050 | -11.7 | 496,164 | 543,087 | -8.6 | | | | | | |
| Corrugated Pipe & Conduit | 6,145 | 10,078 | -39.0 | 107,003 | 137,231 | -22.0 | | | | | | |
| Non-corrugated Pipe & Conduit | 33,625 | 34,972 | -3.9 | 389,161 | 405,856 | -4.1 | | | | | | |
| Other Extruded Products | 5,298 | 7,806 | -32.1 | 86,149 | 57,630 | 49.5 | | | | | | |
| Resellers & Compounders | 41,659 | 47,654 | -12.6 | 575,596 | 533,182 | 8.0 | | | | | | |
| All Other Uses | 34,163 | 27,563 | 23.9 | 326,824 | 344,837 | -5.2 | | | | | | |

(2) = Included in Other Extruded Products
(3) = Included in Film

D = Disclosure
R = Revision

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI's COMMITTEE ON RESIN STATISTICS (CRS)

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| POLYPROPYLENE, TOTAL | 535,915 | 558,661 | -4.1 | 6,543,320 | 6,097,851 | 7.3 | 624,626 | 597,574 | 4.5 | 6,727,866 | 6,076,792 | 10.7 |
| Total Exports | 69,199 | 94,628 | -26.9 | 1,133,983 | 1,124,358 | 0.9 | | | | | | |
| Total Domestic | 466,716 | 464,033 | 0.6 | 5,409,337 | 4,973,493 | 8.8 | | | | | | |
| Injection Molding | 139,587 | 138,951 | 0.5 | 1,565,030 | 1,497,996 | 4.5 | | | | | | |
| Appliances | 12,591 | 10,382 | 21.3 | 136,403 | 129,433 | 5.4 | | | | | | |
| Consumer Products | 32,345 | 35,489 | -8.9 | 384,254 | 388,313 | -1.0 | | | | | | |
| Rigid Packaging | 45,477 | 42,310 | 7.5 | 551,786 | 477,149 | 15.6 | | | | | | |
| Transportation | 30,596 | 30,576 | 0.1 | 286,661 | 297,975 | -3.8 | | | | | | |
| All Other Injection Molding | 18,578 | 20,194 | -8.0 | 205,926 | 205,126 | 0.4 | | | | | | |
| Blow Molding | 10,032 | 7,561 | 32.7 | 122,276 | 105,353 | 16.1 | | | | | | |
| Containers | D | D | | D | D | | | | | | | |
| All Other Blow Molding | D | D | | D | D | | | | | | | |
| Film (10 Mils & Below) | 46,148 | 47,703 | -3.3 | 541,087 | 506,029 | 6.9 | | | | | | |
| Sheet (Over 10 Mils) | 11,414 | 6,639 | 71.9 | 114,614 | 73,957 | 55.0 | | | | | | |
| Extrusion Coating | D | D | | D | D | | | | | | | |
| Wire & Cable | D | D | | D | D | | | | | | | |
| Fiber & Filaments | 146,107 | 153,115 | -4.6 | 1,691,698 | 1,600,541 | 5.7 | | | | | | |
| Textile Applications | 135,496 | 146,406 | -7.5 | 1,594,353 | 1,518,734 | 5.0 | | | | | | |
| Non-Textile Monofilaments | 10,611 | 6,709 | 58.2 | 97,345 | 81,807 | 19.0 | | | | | | |
| Pipe & Conduit | D | D | | D | D | | | | | | | |
| Other Extruded Products # | 7,352 | 8,568 | -14.2 | 94,746 | 114,829 | -17.5 | | | | | | |
| Resellers, Distributors, & Compounders, Total | 99,844 | 96,951 | 3.0 | 1,211,583 | 1,030,735 | 17.5 | | | | | | |
| Resellers & Distributors | 69,709 | N/A | | 883,974 | N/A | | | | | | | |
| Compounders | 30,135 | N/A | | 327,609 | N/A | | | | | | | |
| All Other Uses | 6,232 | 4,545 | 37.1 | 68,303 | 44,053 | 55.0 | | | | | | |

# = Includes Extrusion Coating, Wire & Cable, Pipe & Conduit

D = Disclosure

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)

CRS

NOVEMBER 1988

| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| POLYSTYRENE RESINS, TOTAL | 386,741 | 374,304 | 3.3 | 4,625,224 | 4,467,570 | 3.5 | 426,168 | 400,070 | 6.5 | 4,716,706 | 4,367,933 | 8.0 |
| Straight Polystyrene | 214,427 | 203,826 | 5.2 | 2,498,377 | 2,389,782 | 4.5 | 237,710 | 212,124 | 12.1 | 2,493,731 | 2,339,833 | 6.6 |
| Rubber-Modified Polystyrene | 172,314 | 170,478 | 1.1 | 2,126,847 | 2,077,788 | 2.4 | 188,458 | 187,946 | 0.3 | 2,222,975 | 2,028,100 | 9.6 |
| Exports Total | 10,056 | 7,111 | 41.4 | 145,649 | 102,526 | 42.1 | | | | | | |
| Straight Polystyrene | 7,975 | 4,557 | 75.0 | 108,191 | 66,880 | 61.8 | | | | | | |
| Rubber-Modified Polystyrene | 2,081 | 2,554 | -18.5 | 37,458 | 35,646 | 5.1 | | | | | | |
| Domestic Total | 376,685 | 367,193 | 2.6 | 4,479,575 | 4,365,044 | 2.6 | | | | | | |
| Molding | 138,766 | 162,328 | -14.5 | 1,771,396 | 1,709,922 | 3.6 | | | | | | |
| Extrusion | 162,459 | 144,142 | 12.7 | 1,938,218 | 1,934,390 | 0.2 | | | | | | |
| Expandable Polystyrene Beads | 55,872 | 41,663 | 34.1 | 536,626 | 478,363 | 12.2 | | | | | | |
| Block | 25,247 | N/A | | 257,928 | N/A | | | | | | | |
| Shape | 12,537 | N/A | | 128,805 | N/A | | | | | | | |
| Loose Fill | D(1) | N/A | | D(1) | N/A | | | | | | | |
| Other EPS | 18,088 | N/A | | 149,893 | N/A | | | | | | | |
| All Other Uses | 19,588 | 19,060 | 2.8 | 233,335 | 242,369 | -3.7 | | | | | | |
| Polystyrene End Uses Total | 376,685 | 367,193 | 2.6 | 4,479,575 | 4,365,044 | 2.6 | | | | | | |
| Packaging | 64,665 | 96,089 | -32.7 | 912,926 | 1,173,235 | -22.2 | | | | | | |
| Disposable Food Serviceware | 70,902 | 60,127 | 17.9 | 850,476 | 707,716 | 20.2 | | | | | | |
| Consumer and Inst. Products | 55,530 | 57,043 | -2.7 | 696,131 | 711,778 | -2.2 | | | | | | |
| Electrical/Electronics | 49,600 | 40,263 | 23.2 | 484,732 | 448,112 | 8.2 | | | | | | |
| Furniture, Furn., Bulding & Const. | 23,932 | 20,180 | 18.6 | 271,260 | 215,092 | 26.1 | | | | | | |
| Expandable Polystyrene Beads | 55,872 | 41,663 | 34.1 | 536,625 | 478,363 | 12.2 | | | | | | |
| Resellers and Compounders | 34,435 | 32,877 | 4.7 | 445,431 | 373,565 | 19.2 | | | | | | |
| All Other End Uses | 21,749 | 18,951 | 14.8 | 281,994 | 257,183 | 9.6 | | | | | | |

(1) Included in Other EPS

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N/A = Not Available
D = Disclosure
R = Revisions

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| ABS (ACRYLONITRILE-BUTADIENE-STYRENE), TOTAL | 106,432 | 114,555 | -7.1 | 1,169,944 | 1,116,094 | 4.8 | 99,130 | 97,092 | 2.1 | 1,166,627 | 1,062,265 | 9.8 |
| SAN (STYRENE-ACRYLONITRILE-BUTADIENE), TOTAL | 11,819 | 10,907 | 8.4 | 134,851 | 116,161 | 16.1 | 13,138 | 12,358 | 6.3 | 137,439 | 117,634 | 16.8 |
| Total Exports | 4,955 | 1,964 | 152.3 | 51,021 | 28,104 | 81.5 | | | | | | |
| Total Domestic | 6,864 | 8,943 | -23.2 | 83,830 | 88,057 | -4.8 | | | | | | |
| OTHER STYRENICS (40% OR MORE STYRENE), TOTAL | 14,251 | 24,117 | -40.9 | 166,099 | 262,035 | -36.6 | 18,336 | 26,048 | -29.6 | 196,869 | 277,377 | -29.0 |
| ABS, SAN, & OTHER STYRENICS, TOTAL | 132,502 | 149,579 | -11.4 | 1,470,894 | 1,494,290 | -1.6 | 130,604 | 135,498 | -3.6 | 1,500,935 | 1,457,276 | 3.0 |
| Total Exports | D(2) | N/A | | D(2) | N/A | | | | | | | |
| Total Domestic * | 132,502 | N/A | | 1,470,894 | N/A | | | | | | | |
| Electrical/Electronic | D(2) | N/A | | D(2) | N/A | | | | | | | |
| Building and Construction | 13,856 | N/A | | 134,640 | N/A | | | | | | | |
| Transportation | 31,112 | N/A | | 327,160 | N/A | | | | | | | |
| Consumer/Institutional | D(2) | N/A | | D(2) | N/A | | | | | | | |
| All Other | 87,534 | N/A | | 1,009,094 | N/A | | | | | | | |
| STYRENE BASED LATEXES, TOTAL *** | 81,771 | 78,373 | 4.3 | 919,394 | 893,219 | 2.9 | 79,787 | 76,640 | 4.1 | 881,554 | 851,718 | 3.5 |
| Paper Treating | 2,114 | 2,545 | -16.9 | 27,773 | 43,485 | -36.1 | | | | | | |
| Textile Treating | 878 | 1,175 | -25.3 | 10,606 | 15,055 | -29.6 | | | | | | |
| Carpet Backing | 30,633 | 25,831 | 18.6 | 350,686 | 335,807 | 4.4 | | | | | | |
| All Other Uses (Incl. Exports & Paper Coating) | 48,146 | 48,822 | -1.4 | 530,329 | 498,872 | 6.3 | | | | | | |
| NYLON RESINS, TOTAL | 50,738 | 44,316 | 14.5 | 523,419 | 454,917 | 30.2 | 51,817 | 40,571 | 27.7 | 514,165 | 465,468 | 19.3 |
| Total Exports | 7,377 | 5,571 | 32.4 | 71,161 | 53,160 | 67.9 | | | | | | |
| Total Domestic | 43,361 | 38,745 | 11.9 | 452,258 | 401,757 | 25.2 | | | | | | |
| Injection Molding Grade | 25,216 | 23,454 | 7.5 | 266,758 | 243,322 | 19.5 | | | | | | |
| Extrusion Grade | 12,525 | 11,856 | 5.6 | 137,217 | 120,839 | 28.0 | | | | | | |
| Resellers and Compounders | 4,617 | 2,341 | 97.2 | 34,596 | 26,310 | 56.6 | | | | | | |
| All Other Uses | 1,003 | 1,094 | -8.3 | 13,687 | 11,286 | 45.7 | | | | | | |

Styrene Based Latexes sales include some Canadian produced material.

*** = Applied disclosure rule: No one company greater than 50% and no two companies greater than 75%.

* = Total Domestic includes Exports.

D(2) = Included in All Other.

D - Disclosure

Compiled by ERNST & WHINNEY, Washington, D.C., for SPI's COMMITTEE ON RESIN STATISTICS (CRS)



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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)



NOVEMBER 1988

| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| POLYVINYL CHLORIDE & COPOLYMERS, TOTAL (Dry Resin Content) | 643,993 | 694,343 | -7.3 | 7,599,312 | 7,416,400 | 2.5 | 695,111 | 687,435 | 1.1 | 7,647,634 | 7,244,057 | 5.6 |
| Homopolymer Resins Including Blending & Latex | 587,527 | 633,566 | -7.3 | 6,968,155 | 6,804,961 | 2.4 | 636,305 | 627,204 | 1.5 | 7,019,114 | 6,657,198 | 5.4 |
| Copolymer Resins Including Blending & Latex | 16,814 | 17,556 | -4.2 | 194,891 | 191,302 | 1.9 | 16,492 | 19,142 | -13.8 | 194,494 | 184,899 | 5.2 |
| Dispersion | 39,652 | 43,221 | -8.3 | 436,266 | 420,137 | 3.8 | 42,314 | 41,089 | 3.0 | 434,026 | 401,960 | 8.0 |
| Total Exports | 40,424 | 34,712 | 16.5 | 461,642 | 400,246 | 15.3 | | | | | | |
| Total Domestic | 603,569 | 659,631 | -8.5 | 7,137,670 | 7,016,154 | 1.7 | | | | | | |
| Calendering, Total | 69,439 | 69,228 | 0.3 | 785,261 | 715,494 | 9.8 | | | | | | |
| Flooring | 15,958 | 17,215 | -7.3 | 188,512 | 171,895 | 9.7 | | | | | | |
| Textile | 8,453 | 7,585 | 11.4 | 116,734 | 100,924 | 15.7 | | | | | | |
| All Other Calendering Uses | 45,028 | 44,428 | 1.4 | 480,015 | 442,675 | 8.4 | | | | | | |
| Coating, Total | 31,591 | 34,535 | -8.5 | 341,022 | 344,722 | -1.1 | | | | | | |
| Flooring | 13,714 | 16,523 | -17.0 | 143,785 | 152,159 | -5.5 | | | | | | |
| Textile & Paper Coating | 9,300 | 9,734 | -4.5 | 98,890 | 100,833 | -1.9 | | | | | | |
| Protective Coating | 4,188 | 4,160 | 0.7 | 50,782 | 46,548 | 9.1 | | | | | | |
| Adhesives & All Other Coating Uses | 4,389 | 4,118 | 6.6 | 47,565 | 45,182 | 5.3 | | | | | | |
| Extrusion, Total | 401,142 | 451,726 | -11.2 | 4,820,041 | 4,867,713 | -1.0 | | | | | | |
| Wire & Cable | 36,439 | 41,152 | -11.5 | 396,300 | 420,641 | -5.8 | | | | | | |
| Film & Sheet, Packaging | 26,113 | 26,219 | -0.4 | 306,637 | 264,891 | 15.8 | | | | | | |
| Film & Sheet, Non-Packaging | 3,319 | 6,238 | -46.8 | 39,413 | 54,404 | -27.6 | | | | | | |
| Siding & Access., & Mobile Home Skirts | 50,947 | 47,960 | 6.2 | 640,285 | 579,792 | 10.4 | | | | | | |
| Rigid Pipe & Tubing (Except Fittings) | 235,527 | 289,093 | -18.5 | 2,948,933 | 3,084,794 | -4.4 | | | | | | |
| All Other Extrusions | 48,797 | 41,064 | 18.8 | 488,473 | 463,191 | 5.5 | | | | | | |
| Molding, Total | 41,575 | 46,378 | -10.4 | 505,529 | 466,392 | 8.4 | | | | | | |
| Bottles | 17,183 | 19,420 | -11.5 | 198,186 | 158,555 | 25.0 | | | | | | |
| Fittings (Rigid Pipe & Tubing) | 12,829 | 12,839 | -0.1 | 155,068 | 146,333 | 6.0 | | | | | | |
| All Other Molding | 11,563 | 14,119 | -18.1 | 152,275 | 161,504 | -5.7 | | | | | | |
| Paste Processes (Except Coating) | 13,845 | 15,639 | -11.5 | 152,627 | 151,829 | 0.5 | | | | | | |
| Plastisol Formulation | 6,814 | 7,785 | -12.5 | 78,930 | 79,701 | -1.0 | | | | | | |
| All Other | 7,031 | 7,854 | -10.5 | 73,697 | 72,128 | 2.2 | | | | | | |
| Resellers and Compounders | 33,550 | 31,614 | 6.1 | 349,618 | 327,016 | 6.9 | | | | | | |
| All Other Uses | 12,427 | 10,511 | 18.2 | 183,572 | 142,988 | 28.4 | | | | | | |


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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(In thousands of pounds, dry weight basis)



| RESIN KIND & USE | SALES & CAPTIVE USE | | | | | | PRODUCTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOVEMBER | | | YEAR-TO-DATE | | | NOVEMBER | | | YEAR-TO-DATE | | |
| | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG | 1988 | 1987 | % CHG |
| VINYL ACETATE MONOMER (4) FOR POLYVINYL ACETATE, TOTAL | N/A | 55,240 | | N/A | 654,535 | | N/A | 55,240 | | N/A | 654,535 | |
| Total Exports | N/A | 427 | | N/A | 6,209 | | | | | | | |
| Total Domestic | N/A | 54,813 | | N/A | 648,326 | | | | | | | |
| Emulsion Paints | N/A | 17,487 | | N/A | 219,864 | | | | | | | |
| Adhesives, Caulks and Sealants | N/A | 19,472 | | N/A | 230,904 | | | | | | | |
| Paper Treating & Paper Coating | N/A | 10,660 | | N/A | 111,116 | | | | | | | |
| Textile Treating | N/A | 2,598 | | N/A | 31,584 | | | | | | | |
| Non-Woven Binders | N/A | D(1) | | N/A | D(1) | | | | | | | |
| All Other Uses | N/A | 4,656 | | N/A | 54,858 | | | | | | | |
| POLYVINYL ALCOHOL, TOTAL # | D(4) | D(4) | | D(4) | D(4) | | D(4) | D(4) | | D(4) | D(4) | |
| Total Exports | D(4) | D(4) | | D(4) | D(4) | | | | | | | |
| Total Domestic | D(4) | D(4) | | D(4) | D(4) | | | | | | | |
| OTHER VINYL RESINS, TOTAL* | 16,181 | 18,371 | -11.9 | 190,247 | 190,971 | -0.4 | 18,951 | 19,512 | -2.9 | 201,488 | 196,996 | 2.3 |
| Total Exports | 3,838 | 7,646 | -49.8 | 59,595 | 69,504 | -14.3 | | | | | | |
| Total Domestic | 12,343 | 10,725 | 15.1 | 130,652 | 121,467 | 7.6 | | | | | | |
| THERMOPLASTIC POLYESTER, TOTAL | 130,916 | 119,021 | 10.0 | 1,527,194 | 1,280,794 | 19.2 | 145,116 | 108,956 | 33.2 | 1,522,719 | 1,272,799 | 19.6 |
| Total Exports | 23,769 | 12,933 | 83.8 | 232,102 | 173,791 | 33.6 | | | | | | |
| Total Domestic | 107,147 | 106,088 | 1.0 | 1,295,092 | 1,107,003 | 17.0 | | | | | | |
| PET Bottle Grades | 69,562 | 75,215 | -7.5 | 868,992 R | 796,400 | 9.1 | | | | | | |
| All Other Thermoplastic Polyester** | 37,585 | 30,873 | 21.7 | 426,100 R | 310,603 | 37.2 | | | | | | |

* = Includes only polyvinyl butyral, polyvinyl formal, and polyvinylidene chloride.
** = Includes All Other PET and All Injection Molding Grades.
\# = Includes imputed data.
(1) = Included in All Other Uses.
(4) = The publishing of PVAC & PVOH data has been temporarily suspended.

N/A = Not Available
D = Disclosure
R = Revision



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# SUMMARY

A8920-5
2/25/89

The Society of the
Plastics Industry, Inc.

SPI

# Monthly Statistical Report-Resins

1275 K Street, N.W., #400
Washington, D.C. 20005
(202) 371-5200

FOR THE MONTH AND PERIOD ENDED

NOVEMBER 30, 1988

## APPARENT CONSUMPTION REPORT OF THERMOSETTING AND THERMOPLASTIC RESINS

## ISSUED BY THE COMMITTEE ON RESIN STATISTICS

AS COMPILED BY ERNST & WHINNEY, WASHINGTON, D.C.
Association Services Group

NOTE TO USERS:
PLEASE USE THE FOLLOWING LEGEND WHEN QUOTING DATA FROM THIS REPORT.

SOURCE: SPI COMMITTEE ON RESIN STATISTICS
AS COMPILED BY ERNST & WHINNEY

Release Date: FEBRUARY 15, 1989

SPI

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
MONTHLY STATISTICAL REPORT
(Millions of pounds, dry weight basis)(1)

CRS

NOVEMBER 1988

| RESIN KIND | NOVEMBER | | | | YEAR-TO-DATE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | PRODUCTION | IMPORTS | EXPORTS* | APPARENT CONSUMPTION | PRODUCTION | IMPORTS | EXPORTS* | APPARENT CONSUMPTION | IMPORT % OF APPARENT CONSUMPTION |
| EPOXY RESIN, TOTAL | 39 | 1 | 8 | 32 | 446 | 12 | 87 | 371 | 3% |
| POLYESTER (UNSATURATED) RESINS, TOTAL | 109 | 0 | 5 | 104 | 1,307 R | 6 | 53 | 1,260 | 0% |
| UREA RESINS, TOTAL | 113 | 2 | 0 | 115 | 1,311 | 22 | 8 | 1,325 | 2% |
| MELAMINE RESINS, TOTAL | 19 | 0 | 1 | 18 | 190 | 5 | 14 | 181 | 3% |
| PHENOLIC & OTHER TAR ACID RESINS, TOTAL | 237 | 3 | 5 | 235 | 2,800 | 43 | 56 | 2,787 | 2% |
| THERMOSETTING RESINS, TOTAL | 517 | 6 | 19 | 504 | 6,054 | 88 | 218 | 5,924 | 1% |
| LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL | 904 | 87 | 69 | 922 | 9,488 | 793 | 966 | 9,315 | 9% |
| HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL | 725 | 4 | 47 | 682 | 7,715 | 88 | 737 | 7,066 | 1% |
| POLYPROPYLENE, TOTAL | 625 | 4 | 115 | 514 | 6,728 | 30 | 1,529 | 5,229 | 1% |
| ABS RESINS, TOTAL (ACRYLONITRILE-BUTADIENE-STYRENE) | 99 | 3 | 15 | 87 | 1,167 | 44 | 228 | 983 | 4% |
| SAN (STYRENE-ACRYLONITRILE) RESINS, TOTAL | 13 | 0 | 2 | 11 | 137 | 2 | 46 | 93 | 2% |
| OTHER STYRENICS | 98 | 3 | 16 | 85 | 1,078 | 48 | 170 | 956 | 5% |
| POLYSTYRENE RESINS, TOTAL | 426 | 2 | 10 | 418 | 4,717 | 23 | 175 | 4,565 | 1% |
| NYLON RESINS | 52 | 5 | 11 | 46 | 514 | 48 | 130 | 432 | 11% |
| POLYVINYL CHLORIDE & COPOLYMERS, TOTAL (Dry Resin content) | 695 | 7 | 29 | 673 | 7,648 | 109 | 374 | 7,383 | 1% |
| VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| POLYVINYL ALCOHOL, TOTAL | D(4) | D(4) | D(4) | D(4) | D(4) | D(4) | D(4) | D(4) | D(4) |
| OTHER VINYL RESINS | 19 | 4 | 7 | 16 | 201 | 45 | 77 | 169 | 27% |
| THERMOPLASTIC POLYESTER, TOTAL | 145 | 3 | 18 | 130 | 1,523 | 30 | 151 | 1,402 | 2% |
| THERMOPLASTIC RESINS, TOTAL | 3,801 | 122 | 339 | 3,584 | 40,916 | 1,260 | 4,583 | 37,593 | 3% |
| GRAND TOTAL | 4,318 | 128 | 358 | 4,088 | 46,970 | 1,348 | 4,801 | 43,517 | 3% |

(1) = Except phenolic resins which are reported on a gross weight basis.
(4) = The publishing of PVOH data is temporarily suspended.
N/A = Not Available. The publishing of PVac and OSBP is temporarily suspended.
D = Disclosure
R = Revision
Monthly and Year-To-Date totals may not agree due to government revisions and rounding.

Sources: Production - SPI Monthly Statistical Report
Imports - Bureau of Census IM 145
Exports - Bureau of Census EM 522
* Except for Epoxy Resin, Bureau of Census exports will differ from exports published in the SPI Monthly Statistical Report.

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| | Import No. (1) | Export No. (2) |
|---|---|---|
| Epoxy | 409.0200 | Monthly Resin Report |
| Polyester, Unsaturated | 409.1000 | 444.6000 |
| Urea | 445.3540 | 444.5220 |
| Melamine | 445.3520 | 444.5210 |
| Phenolic | 409.0600 | 444.5810/444.5820 |
| Low Density Polyethylene | 445.3010 | 444.1604/444.1606/444.1608 |
| High Density Polyethylene | 445.3020 | 444.1620 |
| Polypropylene | 445.5200 | 444.1700 |
| ABS | 408.7200 | 444.2010 |
| SAN | 408.8100 | 444.2020 |
| Other Styrenics | 408.7600/408.8450 | 444.2050 |
| Polystyrene | 408.8420 | 444.2030/444.2040 |
| Nylon | 408.6100 | 444.1210 |
| PVC | 445.4600 | 444.2310/444.2320 |
| Vinyl Acetate | 445.4400 | 444.2120 |
| Polyvinyl Alcohol | 445.4200 | 444.2110 |
| Other Vinyls | 445.4800 | 444.2330 |
| Thermoplastic Polyester | 408.6800 | 444.1500 |

(1) Tariff Schedules of the U.S. Annotated
(2) Schedule B